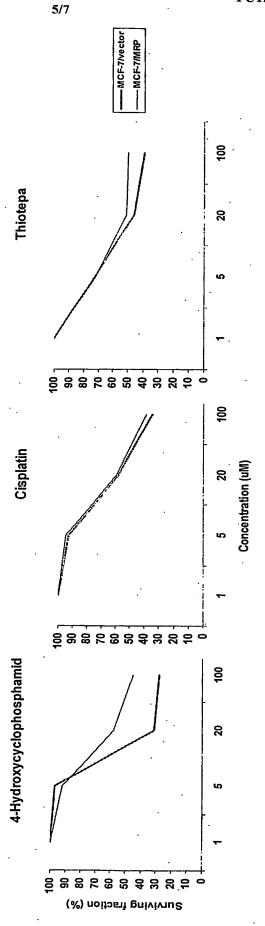


FIG. 3B. Effect of MRP3s1 overexpression on drug sensitivity



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FIG. 4. Sequences for MRP3s1 nucleic acid, polypeptide and promoters.

1. MRP3s1 nucleotide sequence (SEQ ID NO: 1)

```
1 gttttcttgc tttggggtgt tgtaaaaatg atcttggagc ttagccccaa aggacaaaca
   61 gaatttetet tgtetetggg caagttgtag geteatgtga caggteagga cagtgtaggg
  121 ctggcatacc getegeteac gttcacatgc ttgcagagaa cgtacacaga cgaggtgact
  181 gaagectggt etgeaggtea ggeaggteat cetgatgeea gettgtactg teaaagagte
  241 acctaactgc aaacggaatt titgtaaagc agatcacatt gttaatacct caggtggctc
  301 aaaccttgaa cgcgttggca aacaaaaac aatccagaaa ggtcaatttt cacaaaggtc
 361 agtgtgcaca tgaatctact tgttaaaatg tacattttga ttcagtagac ctaggatggg
 421 getcaggact etgeactttg atcaagacte ettggtacge aaagtgtgge ceatgggeea
 481 gttgcatcac catcetetgg gagettgtta gaaatgaaga atetcaggtt ccaagtecca
 541 cetcagacta cagaateegg egttgeattt taacaagatt etetgggaag tettatacat
 601 attaaagttg gagaaacaga aaccaaggcg aggtggtcct tggttaagtc tgcactgtca
 661 ctgcccaagg gagtcattcg ggattacagc cccagctggc atgcctgtgg gcttgatcca
 721 ggcccacctg ggtcatccat gggctaggat cccatggatg ggcacatgat ccaggagtct
 781 gaacteetee caaageeatt acggtgggga ggggagateg ceatacgtat aacceagtee
 841 ctttggc cag gtgacatttg ctctgaactg gatgatacga atgatgtcag atttggaatc
 901 taacatcgtg gctgtggaga gggtcaagga gtactccaag acagagacag aggcgccctg
 961 ggtggtggaa ggcagccgcc ctcccgaagg ttggccccca cgtggggagg tggagttccg
1021 gaattattet gtgcgctace ggccgggcct agacetggtg ctgagagace tgagtetgca
1081 tgtgcacggt ggcgagaagg tggggatcgt gggccgcact ggggctggca agtcttccat
1141 gaccettige etgiteegea teetggagge ggcaaagggt gaaateegea tigatggeet
1201 caatgtggca gacateggee tecatgacet gegeteteag etgaceatea tecegeagga
1261 ccccatcctg ttctcgggga ccctgcgcat gaacctggac cccttcggca gctactcaga
1321 ggaggacatt tggtgggctt tggagctgtc ccacctgcac acgtttgtga gctcccagcc
1381 ggcaggcetg gacttccagt gctcagaggg cggggagaat ctcagcgtgg gccagaggca
1441 getegtgtge etggeeegag eeetgeteeg caagageege ateetggttt tagaegagge
1501 cacagetgee ategacetgg agactgacaa ceteatecag getaceatee geacecagtt
1561 tgatacetge actgteetga ceategeaca ceggettaac actateatgg actaeaceag
1621 ggtcctggtc ctggacaaag gagtagtagc tgaatttgat tctccagcca acctcattgc
1681 agctagagge atettetacg ggatggeeag agatgetgga ettgeetaaa atatatteet
1741 gagattteet eetggeettt eetggtttte atcaggaagg aaatgacace aaatatgtee
1801 gcagaatgga cttgatagca aacactgggg gcaccttaag attttgcacc tgtaaagtgc
1861 cttacagggt aactgtgctg aatgctttag atgaggaaat gatccccaag tggtgaatga
1921 cacgcctaag gtcacagcta gtttgagcca gttagactag tccccggtct cccgattccc
1981 aactgagtgt tatttgcaca ctgcactgtt ttcaaataac gattttatga aatgacctct
204) gtcctccctc tgattittca tattttctaa agtttcgttt ctgttttta ataaaaagct
2101 ttttcctcct ggaacagaag acagctgctg ggtcaggcca cccctaggaa ctcagtcctg
2161 tactctgggg tgctgcctga atccattaaa aatgggagta ctgatgaaat aaaactacat
2221 ggtcaacaaa aaaaaaaaaa aa
```

2. MRP3s1 polypeptide (SEQ ID NO: 2):

MIRMMSDLESNIVAVERVKEYSKTETEAPWVVEGSRPPEGWPPRGEVEFRNYSVRYRPGLDLVLRDLSLH VHGGEKVGIVGRTGAGKSSMTLCLFRILEAAKGEIRIDGLNVADIGLHDLRSQLTIIPQDPILFSGTLRM NLDPFGSYSEEDIWWALELSHLHTFVSSQPAGLDFQCSEGGENLSVGQRQLVCLARALLRKSRILVLDEA TAAIDLETDNLIQATIRTQFDTCTVLTIAHRLNTIMDYTRVLVLDKGVVAEFDSPANLIAARGIFYGMAR DAGLA

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3. MRP3s1 minimal promoter (SEQ ID NO: 3)

gaattctg ttgaataate tetgteetea aaceccacat eteteteetg eteageegte gacettgeet gacaceteae agtteaactg gagagaceee cateageagg agattgtget geaggetgag caggtetttg tggetggaga aacaaaatgt tttaaaagee cagaagaggg actgggtgea gtggeteaea eetaateeea geactttggg aggeggaggt gggeggatea eetgaggeea ggageteeag aacageetgg eatetgtaat eeeageetg eatetgtaat eeeageetg aggeaggaga atagettgaa eetgggagge agaggttgea gtgageeaag ateaegeeae tgeaeteeag eetgggtgae agagegagae teeateteaa gagagaaaaa aaaaaagtee agaggagtt tettgetttg gggtgttgta gaaatgatet tggagettag eeecaaagga eaaggagaa

4. MRP3s1 promoter (SEQ ID NO: 4)

1 atgaaggcc tggacccag ggcaggcca ccactgggac agaaaccaca caggtgttcc 61 aggcatctcc cgagtgccc tccctgctca gtatgggcac cagccacagg gtctgttctc 121 aaggactgtg agaaaaaaa aaaaagaaaa aaatcattga gttgacaagt ttataaaccac 181 acaccatggc tggatgttcc tactttcctt ccccaagaag cccatgttct cacattcaga 241 aagaattctg ttgaataatc tctgtcctca aaccccacat ctctctcctg ctcagccgtc 301 gaccttgcct gacacctcac agttcaactg gagagacccc catcagcagg agattgtgct 361 gcaggctgag caggtctttg tggctggaga aacaaaatgt tttaaaaagcc cagaagaggg 421 actgggtgca gtggctcaca cctaatccca gcactttggg aggcggaggt gggcggatca 481 cctgaggcca ggagctccag aacagcctgg ccaacatggt gaaaccctat ctctacttaa 541 atacaaaaat tagccagccg tggtggcgg catctgtaat cccagctact caggaggctg 601 aggcaggaga atagcttgaa cctgggaggc agaggttgca gtgagccaag atcacgccac 661 tgcactccag cctggtgac agagcgagac tccatctcaa gagagaaaaa aaaaaagtcc 721 agaggagtt tcttgctttg gggtgttgta gaaatgatct tggagcttag ccccaaagga 781 caagga

5. MRP3s1 promoter 276 bp region (SEQ ID NO: 5):

Fig 4 Continued